

Title (en)

Mirror having mechanical means of generating primary geometric aberrations

Title (de)

Spiegel mit mechanischen Mitteln zum generieren von primären geometrischen Aberrationen.

Title (fr)

Miroir comprenant des moyens mécaniques de génération d'aberrations géométriques primaires

Publication

EP 2570842 B1 20141112 (FR)

Application

EP 12183932 A 20120911

Priority

FR 1102805 A 20110916

Abstract (en)

[origin: EP2570842A1] The device has a mirror deformation system (S) comprising a first mechanical structure (S1), a first electromechanical actuator attached to the first structure and a second mechanical structure (S2). A planar bottom (Fd) and a surround of the second structure are attached to a surround of the first structure and a surround of a mirror (M), respectively. A rigid stud (P) is attached to the bottom and centred on the bottom. The actuator exerts predetermined force (F3) on the stud perpendicular to a surface of the stud to generate uniform distribution of bending moments on the mirror surround. The mirror deformation system comprises a second electromechanical actuator arranged to exert predetermined bending moment on the stud parallel to the surface of the stud for generating the distribution of the bending moments on the surround of the mirror modulated by a desired trigonometrical function. The mirror is a circular or elliptical plate. The rigid stud is a planar rigid stud. An independent claim is also included for a method for producing a deformable mirror.

IPC 8 full level

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